



# SPARC® Enterprise M8000/M9000 Servers Product Notes

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For XCP version 1060

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# Contents

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## Preface vii

Technical Support vii

Software Resources vii

Accessing Documentation viii

Fujitsu Welcomes Your Comments ix

## SPARC Enterprise M8000/M9000 Servers Product Notes 1

Supported Versions of Firmware and Software 1

Solaris Patch Information 2

Known Issues 4

    General Functionality Issues and Limitations 4

    Notes for XCP 1050 or Later 5

    Notes for XSCF Web 5

    Hardware Installation and Service Issues 6

        Specific Issues and Workarounds 6

    Hardware Documentation Updates 7

        Updates of the SPARC Enterprise M8000/M9000 Servers Site Planning Guide 8

        Bottom Views of the Components 8

    Software Issues 10

XCP Issues and Workarounds	10
Solaris Issues and Workarounds	14
Identifying Permanent Memory in a Target Board	24
Preparing to Upgrade to XCP 1050 or Later	24
Upgrading From XCP104x to XCP 1050 or Later	25
Software Documentation Updates	30

# Preface

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These product notes contain late-breaking information about the SPARC® Enterprise M8000/M9000 server hardware, software, or documentation that became known after the documentation set was published.

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## Technical Support

If you have technical questions or issues that are not addressed in the SPARC Enterprise M8000/M9000 servers documentation, contact a sales representative or a certified service engineer.

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## Software Resources

The Solaris™ Operating System and Sun Java™ Enterprise System software are preinstalled on your SPARC Enterprise M8000/M9000 servers.

Contact a sales representative or a certified service engineer for software resources for your SPARC Enterprise M8000/M9000 servers.

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**Note** – For latest patch information go to:

**Global Site**

<http://www.fujitsu.com/global/support/software/security/products-s/patch-info/>

**Japanese Site**

<http://software.fujitsu.com/jp/security/products-others/unix/>

**North American Site**

<https://download.computers.us.fujitsu.com/>

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Installation information and README files are included in the patch download.

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## Accessing Documentation

Instructions for installing, administering, and using your SPARC Enterprise M8000/M9000 servers are provided in the SPARC Enterprise M8000/M9000 servers documentation set.

The documentation set is available for download from the following website:

**Global Site**

<http://www.fujitsu.com/sparcenterprise/manual/>

**Japanese Site**

<http://primeserver.fujitsu.com/sparcenterprise/manual/>

**North American Site**

<https://download.computers.us.fujitsu.com/>

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**Note** – Information in these product notes supersedes the information in the SPARC Enterprise M8000/M9000 servers documentation set.

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Solaris documentation is available at:

<http://www.sun.com/documentation>

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## Fujitsu Welcomes Your Comments

If you have any comments or requests regarding this manual, or if you find any unclear statements in the manual, please state your points specifically, and forward it to a sales representative or a certified service engineer.

Please include the title and part number of your document with your feedback.



# SPARC Enterprise M8000/M9000 Servers Product Notes

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These product notes contain late-breaking information about the SPARC® Enterprise M8000/M9000 server hardware, software, or documentation that became known after the documentation set was published.

- [Supported Versions of Firmware and Software](#)
- [Solaris Patch Information](#)
- [Known Issues](#)
- [Notes for XCP 1050 or Later](#)
- [Notes for XSCF Web](#)
- [Hardware Installation and Service Issues](#)
- [Hardware Documentation Updates](#)
- [Software Issues](#)
- [Software Documentation Updates](#)

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## Supported Versions of Firmware and Software

The following firmware and software versions are supported in this release:

- XSCF Control Package (XCP) 1060 or later

You can download the latest files of firmware at the following websites.

Global Site:

<http://www.fujitsu.com/sparcenterprise/firmware/>

Japanese Site:

<http://primeserver.fujitsu.com/sparcenterprise/download/firmware/>

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**Note –** When the XCP version preinstalled in your server is under XCP 1060, you must upgrade to XSCF Control Package(XCP) 1060 or later. Use the web browser interface, also known as the browser user interface (BUI), to import XCP firmware and then execute the `flashupdate(8)` command to upgrade the XCP firmware with the XSCF Shell.

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**Caution –** CR ID #6534471: Improper handling of large page in kernel memory may cause random panics. Implement the workaround for CR ID #6534471 or check for the availability of a patch and install it immediately. This bug has been fixed in 125100-06 and Solaris 10 8/07.

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- The first version of the Solaris™ Operating System (OS) to support these servers is the Solaris 10 11/06 OS.

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**Note –** All SPARC Enterprise M8000/M9000 servers must be upgraded to XCP 1050 or later in order to support adding future COD Right To Use (RTU) licenses. Contact your local Service Representative for assistance.

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## Solaris Patch Information

This section lists mandatory patches for the SPARC Enterprise M8000/M9000 servers.

These patches are not required for servers running Solaris 10 8/07 OS.

- 118833-36 (Install 118833-36 before 125100-04.)
- 125100-04 or later
- 120068-03 or later
- 123839-07 or later
- 125424-01 or later
- 125075-01 or later
- 125670-02 or later

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**Note** – See “[Software Resources](#)” on page vii for information on how to find the latest patches. Installation information and README files are included in the patch download.

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# Known Issues

This section describes known issues in this release.

## General Functionality Issues and Limitations



**Caution** – For dynamic reconfiguration (DR) and hot-plug issues, see [TABLE 4](#).

- Domains using the ZFS file system can not use Dynamic Reconfiguration.
- The maximum number of IOUA (Base I/O Card) cards per domain is limited to six cards.
- Do not use the internal CD-RW/DVD-RW drive unit and the TAPE drive unit at the same time.
- For this XCP release, the XSCF web browser interface, also known as the browser user interface (BUI) does not support the External I/O Expansion Unit Manager feature.
- The XSCF web browser interface, also known as the browser user interface (BUI), supports new feature concerning the COD configuration.
- The XSCF does not support the Log Archiving feature.
- When using XSCF as the NTP server of the domain, configure it so as not to block the ICMP protocol of the DNS server and the NTP server which the XSCF refers to.
- When you use the external power control interface (EPC) of the external power controller, the following notification signals are not supported:
  - the OS panic or the server hardware error signal (\*CPUN/RTNU)
  - the server hardware error signal (power fail, temperature error, and fan error) (\*ALARM)
- For 1027A-Z/X1027A-Z, PCIe Dual 10 Gigabit Ethernet Fiber XFP cards, these limits apply:
  - Do not use more than two cards per domain.
  - Do not use these cards in an External I/O Expansion Unit.
- For 4447A-Z/X4447A-Z, PCIe Quad-port Gigabit Ethernet Adapter UTP cards, these maximum limits apply:
  - No more than two cards in an External I/O Expansion Unit.
  - No more than eight cards in a SPARC Enterprise M8000/M9000 servers.

- To complete updating the OpenBoot PROM firmware in the target domain, be sure to power off/on the domain.
- In case that Solaris OS is a single user mode, if you switch from the domain console to the XSCF Shell, Solaris OS might be started up to multi-user mode. When you operate the single user mode for Solaris OS, don't switch from the domain console to the XSCF Shell.
- We recommend the domain to use the XSCF Unit as NTP server. In this case, needs the following attention.
  - XSCF must be connected to an external NTP server
  - When you connect one or more NTP servers in addition to XSCF, connect the same NTP server as XSCF is using

For details on NTP server, contact your technical support. For details on NTP settings, refer to the *SPARC Enterprise M4000/M5000/M8000/M9000 servers XSCF User's Guide*.

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## Notes for XCP 1050 or Later

- On the SPARC Enterprise M8000/M9000 servers with XCP1050 or later, the dual XSCF Unit feature is working. Therefore, you can not downgrade SPARC Enterprise M8000/M9000 servers with XCP1050 or later to XCP1040 or XCP1041, which does not support dual XSCF Unit feature.
- You cannot use the following user account names, as they are reserved for system use: root, bin, daemon, adm, operator, nobody, sshd, rpc, rpcuser, ldap, apache, ntp, admin, and default.

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## Notes for XSCF Web

- Using the XSCF Web, when you import XCP or update the firmware, Session ID error may be displayed on the web browser. And in the Autologout setting, when you specify the timeout period as over 30 minutes, Internal Server Error may be displayed when you perform the firmware update.
- When you use the XSCF Web, if a plug-in such as the search tool installed with the browser, remove the plug-in or disable the pop-up blocking.

# Hardware Installation and Service Issues

This section describes hardware specific issues and workarounds.

## Specific Issues and Workarounds

[TABLE 1](#) lists known hardware issues and possible workarounds.

**TABLE 1** Hardware Issues and Workarounds

CR ID	Description	Workaround
6433420	The domain console might display a Mailbox timeout or IOCB interrupt timeout error during boot.	Issue a <code>reset -all</code> command from the OpenBoot PROM (OK) prompt and reboot.
6488846	During boot, the domain console might display a checksum error for the SG(X)PCI2SCSIU320-Z SCSI controller I/O card.	Check for the availability of the latest controller card firmware.
6557379	Power cables are not redundant on single power feed servers without the dual power feed option.	On servers that have single power feed, all power cables must be connected and powered on at all times.

# Hardware Documentation Updates

TABLE 2 lists known documentation updates.

TABLE 2 Documentation Updates

Title	Page Number	Update
All SPARC Enterprise M8000/M9000 servers documentation		All DVD references are now referred to as CD-RW/DVD-RW.  Updated glossary terms: <b>External I/O Expansion Unit</b> - A rack mountable device to add-on PCI slots. It is connected to the system's I/O unit through the PCIe connection and contains one or two I/O boats. <b>I/O boat</b> - An I/O unit in the External I/O Expansion Unit. The I/O boat connects to a PCI-Express (PCIe) slot through a PCIe switch or a PCI-X bridge on the I/O boat and offers either six PCI-X slots or six PCIe slots.
SPARC Enterprise M8000/M9000 Servers Overview Guide	1-8	TABLE 1-1 "Main Unit Specifications"  Main storage (memory module) describes the maximum capacity when 8GB DIMM mounted; however, 8GB DIMM can't be mounted at this time.
	1-21	1.3.3, "I/O Unit"  It describes the types of LAN port as "1000BASE-T/100Base-TX/100Base-T," which should be modified as "1000Base-T/100Base-TX/10Base-T."
	1-26	1.5.3, "SPARC Enterprise M9000 Server (Expansion Cabinet) Option"  It describes that the configuration can contain "up to 2B," which should be modified as "2TB."  The memory size described here is the maximum capacity when 8GB DIMM mounted; however, 8GB DIMM can't be mounted at this time.

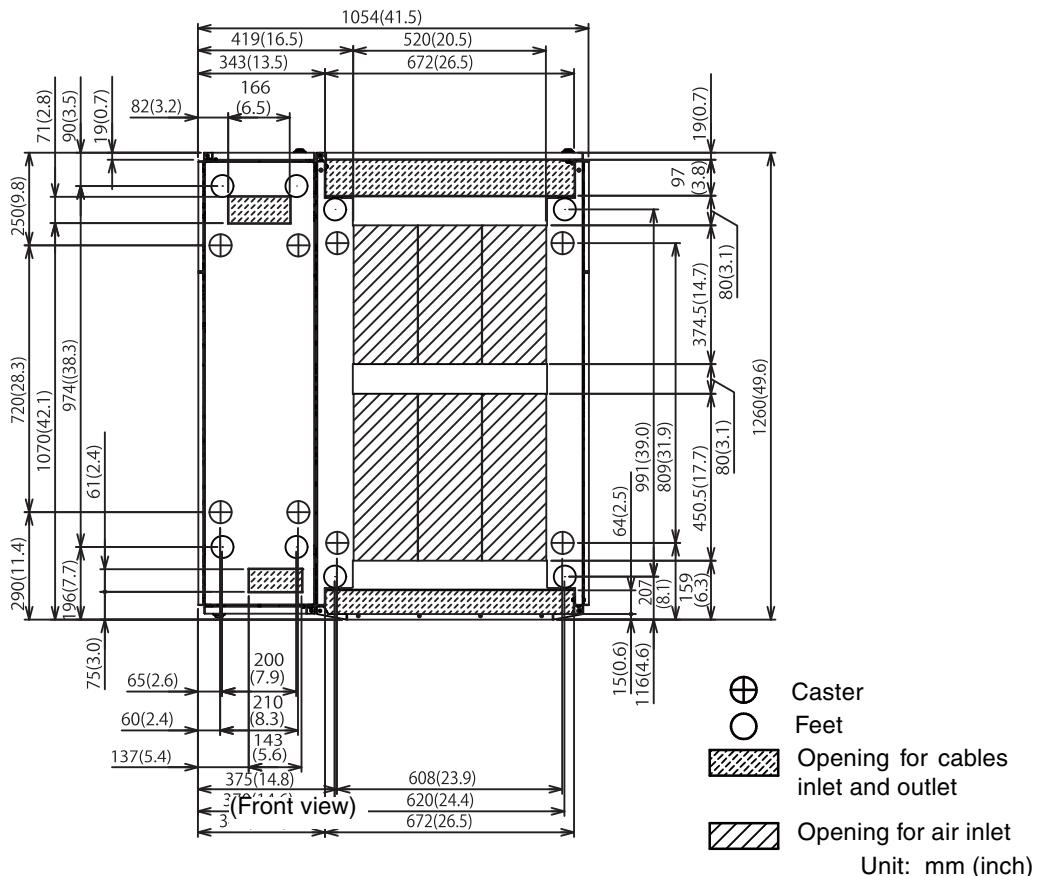
# Updates of the SPARC Enterprise M8000/M9000 Servers Site Planning Guide

The following information supersedes the information in the *SPARC Enterprise M8000/M9000 Servers Site Planning Guide*.

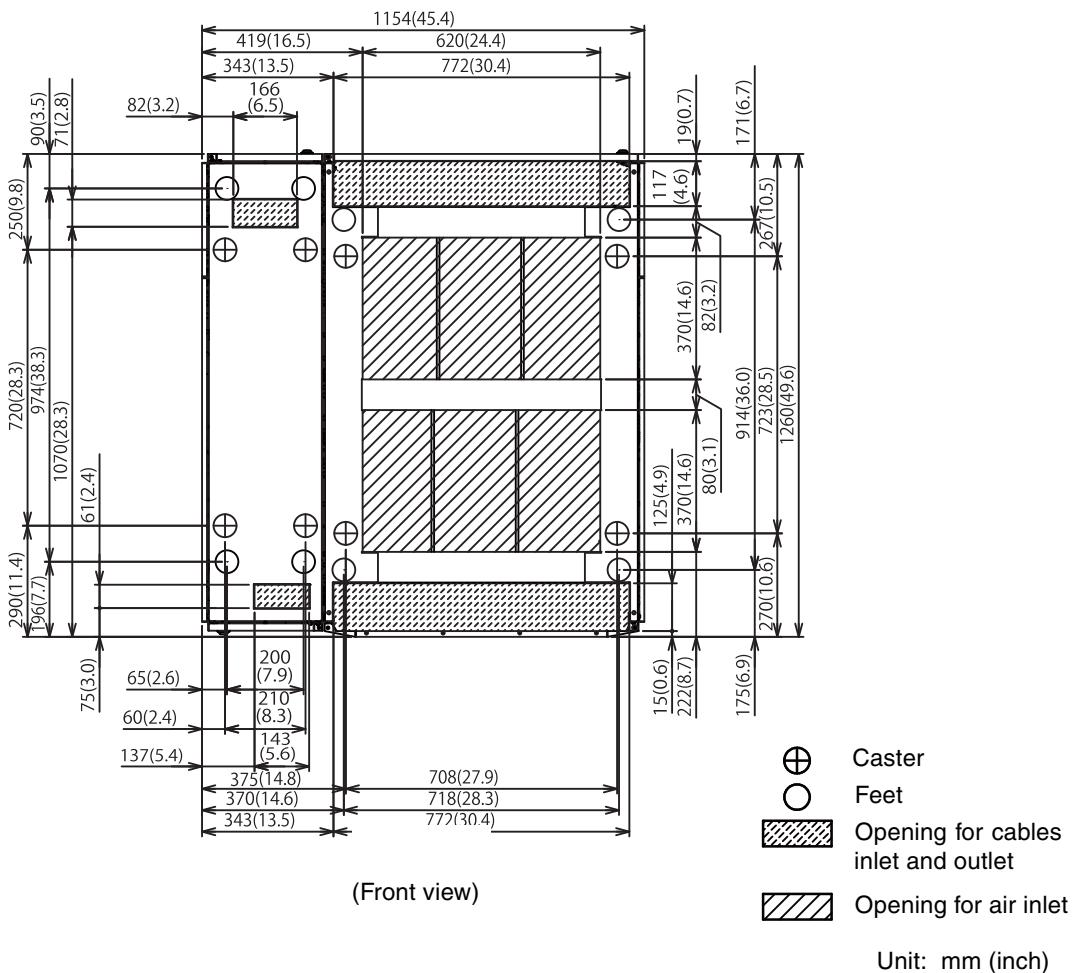
## Bottom Views of the Components

This is to correct the description in Section 1.2.2.2, "Bottom View of the Components", FIGURE 1-18 SPARC Enterprise M8000 Server + Power Cabinet Bottom View and FIGURE 1-20 SPARC Enterprise M9000 Server (Base Cabinet) + Power Cabinet Bottom View. The correct figures are as follows:

**FIGURE1-18** SPARC Enterprise M8000 Server + Power Cabinet Bottom View



**FIGURE1-18** SPARC Enterprise M9000 Server (Base Cabinet) + Power Cabinet Bottom View



# Software Issues

This section describes software specific issues and workarounds.

## XCP Issues and Workarounds

[TABLE 3](#) lists known XCP issues and possible workarounds.

**TABLE 3** XCP Issues and Workarounds

ID	Description	Workaround
RTIF1-070418-009	While XSCF is running, a process may go down, a watchdog timeout may occur, or a hang-up may occur. After this, XSCF may reset.	Check that XSCF is started. If not started, use the rebootxscf(8) command to restart XSCF, or stop all the domains and then execute the system power off/on (AC OFF/ON).
RTIF1-070528-002	While XSCF is running, watchdog timeout may occur and XSCF may reboot.	Check that XSCF is started. If not started, use the rebootxscf(8) command to restart XSCF, or stop all the domains and then execute the system power off/on (AC OFF/ON).
RTIF1-070823-001	Using the XSCF Web, when you selected SSH on the snapshot screen, the maximum number of character input for Host, Directory, ID, and Password doesn't correspond to the maximum number of character input on the XSCF Shell.	To specify the value which exceeds the maximum number of character input for the XSCF Web, use XSCF Shell.
RTIF1-070823-003	When you display the Logical tree on the XSCF Web, the hardware configuration of CPU or memory which assigned to the domain appears differently from the actual domain configuration.	On the Menu, select Device Status to refer to the domain hardware configuration. Or use the showdevices(8) command to refer to the domain hardware configuration.
RTIF1-070824-002	On the XSCF Web, when you select Domain Mode Configuration to perform various settings, the pop-up screen may not appear but "Undefined" may be displayed on the screen.	Select Domain Mode Configuration one more time and perform the settings. Or once terminate the XSCF Web and then perform the settings.
RTIF1-070824-004	On the XSCF Web, on the Domain Status screen, when you select an XSB displayed on the Domain Component List, and in case the selected XSB is not yet mounted or is Uni-XSB, the pop-up screen displays no data.	None available at this time.

**TABLE 3** XCP Issues and Workarounds (*Continued*)

ID	Description	Workaround
RTIF1-070824-005	On the XSCF Web, when you changed the Refresh Interval value of the Monitor Message Frame, the invalid pop-up "Confirmation Domain mode" may appear.	Ignore the pop-up and close the screen.
RTIF1-070824-006	On the tab browser, to the same host, when you perform multiple log-in with the user accounts of different user privileges, the user privilege of the last log-in user account will be applied to those pages which you've already logged in.	When you use the tab browser, do not perform multiple log-in to the same host.
RTIF1-070824-008	On the Domain Configuration screen, when you select an undefined Domain ID, the Configuration Policy remains as the content which previously displayed.	None available at this time.
RTIF1-070824-011	While using FireFox2, in the Configuration policy setting on the Domain Configuration screen, when you specify a domain which is in operation, an error display pop-up appears. When you click on the Back button on this error display pop-up and click on the Cancel button on the inquiry screen to re-display the data, the system remains in the error message screen.	From the Menu, select the Domain Configuration page again.
RTIF1-070904-001	CLIs should display "Permission denied" when it is executed in Standby XSCF.	Only the following CLIs can be executed on the Standby XSCF: <code>snapshot(8)</code> , <code>switchscf(8)</code> . Do not attempt to run any other CLI on the Standby. Such attempts will report various errors.
RTIF1-070904-003	An incorrect domain state is reported. After the command <code>sendbreak(8)</code> to domain is issued, <code>showdomainstatus(8)</code> continues to show the state as "Running" when the domain is actually at "ok" prompt.	There is no workaround. This is expected behavior of the <code>sendbreak(8)</code> operation.
RTIF1-070904-004	The latest communication field in <code>showarchiving(8)</code> command is not updated regularly.	Disabling and re-enabling archiving refreshes the Latest communication field in <code>showarchiving(8)</code> output.
RTIF1-070904-006	While executing the domain power-on, domain reset or DR, in case the XSCF reboot occurred, the process may be aborted in some or all of the XSB.	Execute the domain reset one more time, or power off the domain and then power on again.

**TABLE 3** XCP Issues and Workarounds (*Continued*)

ID	Description	Workaround
RTIF1-070914-006	When you set the XSCF user account name to the maximum 32 characters, you can log in, but then, when you execute the XSCF Shell or operate the XSCF Web, "Permission denied" occurs.	Use up to 31 characters to set the XSCF user account name.
RTIF1-070914-019	The CLI 'showldap -c' (which displays current LDAP certificates) will show proper data only when used with the same user account that had originally provided certificate information using 'setldap -c'. Any other user account will generate "Permission denied" error. Similarly, the XSCF Web's LDAP Configuration pop-up screen will display no data, when a different user account is used.	Use the same user account for all LDAP display or configuration operations, for both CLI and XSCF Web.
RTIF1-070914-020	On the User Account setting page on the User Manager screen, after the password change resulted in "Change Password Error," when you click on the REFRESH button, there appears the error message "No user. The request is aborted."	To change the password, select User Manager on the Menu again.
RTIF1-070914-021	During the Open BootPROM process, when you power off the domain, the error log of Domain hang-up detected (level3) may be registered.	This error log can be safely ignored.
RTIF1-070914-023	When you specify the domain ID or XSB number which are not supported on the machine, there appears the parameter error message.	To specify the available domain ID or XSB number on the machine.
RTIF1-070914-025	When you execute XCP Sync on the Firmware Update page, after 15 minutes, the error message "Another flashupdate is now processing" or "The page cannot be displayed" may appear.	None available at this time. However, the XCP Sync process has been continuously executed. Check the XSCF update completion message on the monitoring message to confirm the completion of Sync process.
RTIF1-071102-001	The XSCF firmware monitors itself and if it detects any inconsistencies, it forces an XSCF reboot.	There is no workaround. Allow the XSCF Unit to finish rebooting. It returns to normal operation within approximately 5 minutes.
RTIF1-071102-002	The snmp daemon might quit.	To restart the snmp daemon, issue the command <code>setsnmp enable</code> .

**TABLE 3** XCP Issues and Workarounds (*Continued*)

ID	Description	Workaround
RTIF1-071116-001	After using the addfru(8) or replacefru(8) command to hotplug a CMU, further DR operations might fail with a misleading message regarding the board being unavailable for DR.	When performing the addfru(8) and replacefru(8) commands, it is mandatory to run diagnostic tests. If you forget to run the diagnostic tests during addfru(8)/replacefru(8) then either run testsb(8) to test the CMU or remove the CMU/IOU with the deletefru(8) command and then use the addfru(8) command with the diagnostic tests.
RTIF1-071116-002	Permanent memory DR operation during XSCF failover might cause domain panic.	Do not start an XSCF failover while a DR operation is running. Wait for a DR operation to finish before starting the failover. If you start the failover first, wait for the failover to finish before starting the DR operation.
RTIF1-071116-003	Using the XSCF Web, when you selected COD, codusage details cannot be displayed correctly.	Use showcodusage(8) command to display the codusage.
RTIF1-071116-004	When Internet Explorer 7 browser is used, the License key deletion cannot be executed on the BUI COD page.	Use other browsers: <ul style="list-style-type: none"><li>• Microsoft Internet Explorer 6.0</li><li>• Firefox 2.0 or later</li><li>• Netscape Navigator 7.1 or later</li></ul>
RTIF1-071116-004	When Internet Explorer 7 browser is used, the License key deletion cannot be executed on the BUI COD page.	Use deletecodlicense(8) command to delete a license key. Or use other browsers: <ul style="list-style-type: none"><li>• Microsoft Internet Explorer 6.0</li><li>• Firefox 2.0 or later</li><li>• Netscape Navigator 7.1 or later</li></ul>
RTIF1-071116-005	While system power on, when the XSCF switching performed by switchscf(8) command, PANIC might be generated in XSCF before it switches, and "SHUTDOWN timeout" may be stored in the error log.	None available at this time. This message can be safely ignored.
RTIF1-071116-006	While XSCF is running, error message of "hang-up is detected" might be displayed to XSCF console, and XSCF may reboot.	Check that XSCF is started. If not started, use the rebootxscf(8) command to restart XSCF, or stop all the domains and then execute the system power off/on (AC OFF/ON).

# Solaris Issues and Workarounds

[TABLE 4](#) lists known issues and possible workarounds.

**TABLE 4** Specific Issues and Workarounds Concerning Solaris

CR ID	Description	Workaround
5076574	A PCIe error can lead to an invalid fault diagnosis on a large M9000/M8000 domain.	Create a file /etc/fm/fmd/fmd.conf containing the following lines; setprop client. buflim 40m setprop client. memlim 40m
6303418	A SPARC Enterprise M9000 server with a single domain and 11 or more fully populated system boards might hang under heavy stress.	Do not exceed 170 CPU strands. Limit the number of CPU strands to one per CPU core by using the Solaris psradm command to disable the excess CPU strands. For example, disable all odd-numbered CPU strands. This bug has been fixed in Solaris 10 8/07.
6348554	Using the cfgadm -c disconnect command on the following cards might hang the command during i_mdi_pi_offline: <ul style="list-style-type: none"><li>• SG-XPCIE2FC-QF4 Sun StorageTek Enterprise Class 4Gb Dual-Port Fibre Channel PCI-E HBA</li><li>• SG-XPCIE1FC-QF4 Sun StorageTek Enterprise Class 4Gb Single-Port Fibre Channel PCI-E HBA</li><li>• SG-XPCI2FC-QF4 Sun StorageTek Enterprise Class 4Gb Dual-Port Fibre Channel PCI-X HBA</li><li>• SG-XPCI1FC-QF4 Sun StorageTek Enterprise Class 4Gb Single-Port Fibre Channel PCI-X HBA</li></ul>	There is no workaround. Check for the patch 126670-10 for this defect.
6416224	System performance can degrade using a single NIC card with more than 5,000 connections.	Use multiple NIC cards to split network connections. This bug has been fixed in Solaris 10 8/07.
6440061	The domain console may display this message: ipsec_check_inbound_policy: Policy Failure for the incoming packet (not secure)	This message can be safely ignored.
6441349	The system may hang if there is an I/O error in the system.	None available at this time. This bug has been fixed in Solaris 10 8/07.

**TABLE 4** Specific Issues and Workarounds Concerning Solaris (*Continued*)

CR ID	Description	Workaround
6449315	The Solaris cfgadm(1M) command does not unconfigure a DVD drive from a domain on a SPARC Enterprise M8000/M9000 server.	Disable the Volume Management Daemon (vold) before unconfiguring a DVD drive with the cfgadm(1M) command. To disable vold, stop the daemon by issuing the command /etc/init.d/volmgt stop. After the device has been removed or inserted, restart the daemon by issuing the command /etc/init.d/volmgt start.
6459540	The DAT72 internal tape drive on SPARC Enterprise M8000/M9000 may time out during tape operations.	Add the following definition to /kernel_drv/st.conf:  <code>tape-config-list= "SEAGATE DAT DAT72-000", "SEAGATE_DAT DAT72-000", "SEAGATE_DAT DAT72-000"; SEAGATE_DAT DAT72-000= 1,0x34,0,0x9639,4,0x00,0x8c,0x8c, 0x8c,3;</code> There are four spaces between SEAGATE DAT and DAT72-000.
6466617	Performing a hot plug operation with the PCI Express slot too quickly interrupts a PCI leaf reset and fails, creating a cfgadm: Component system is busy error.	Pause a few seconds between the issue of each cfgadm -c command.
6472153	If you create a Solaris Flash archive on a non-SPARC Enterprise M8000/M9000 sun4u server and install it on a SPARC Enterprise M8000/M9000 sun4u server, the console's TTY flags will not be set correctly. This can cause the console to lose characters during stress.	Just after installing Solaris OS from a Solaris Flash archive, telnet into the SPARC Enterprise M8000/M9000 server to reset the console's TTY flags as follows:  <code># sttydefs -r console # sttydefs -a console -i "9600 hupcl opost onlcr crtscts" -f "9600"</code>
6481002	Installing the Solaris from the network using certain PCI-Express cards may cause a panic.	This procedure is required only once. If you are using a Sun PCI-E Dual Gigabit Ethernet Adapter MMF card or a Sun PCI-E Dual Gigabit Ethernet Adapter UTP card, do not install the Solaris using either of these cards. Instead, use other network devices, such as the onboard Gigabit Ethernet or another network device.

**TABLE 4** Specific Issues and Workarounds Concerning Solaris (*Continued*)

CR ID	Description	Workaround
6485555	On the SPARC Enterprise M8000/M9000 servers, On-board Gigabit Ethernet NVRAM corruption could occur due to a race condition. The window of opportunity for this race condition is very small.	None available at this time. This bug has been fixed in Solaris 10 8/07.
6496337	The "cpumem-diagnosis" module may fail to load after uncorrectable error(UE) panic. Systems will function correctly but events normally automatically diagnosed by FMA using this module will require manual diagnosis.  Example:  SUNW-MSG-ID: FMD-8000-2K, TYPE: Defect, VER: 1, SEVERITY: Minor EVENT-TIME: Thu Feb 15 15:46:57 JST 2007 PLATFORM: SUNW,SPARC-Enterprise, CSN: BE80601007, HOSTNAME: col2-ff-em7-d0	If problem occurred, implement the following workaround: 1. Remove the following file. # rm /var/fm/fmd/ckpt/cpumem-diagnosis/cpumem-diagnosis 2. Restart fmd service. # svcadm restart fmd  To avoid this problem in advance, add "rm -f /var/fm/fmd/ckpt/cpumem-diagnosis/cpumem-diagnosis" in /lib/svc/method/svc-dumpadm file as below.  # # We haven't run savecore on a dump device yet # savedev=none  rm -f /var/fm/fmd/ckpt/cpumem-diagnosis/cpumem-diagnosis  #
6498283	Using the DR deleteboard(8) command while psradm operations are running on a domain might cause a system panic.	This bug has been fixed in Solaris 10 8/07.  There is no workaround. Check for the availability of a patch for this defect. This bug has been fixed in Solaris 10 8/07.
6499304	CPU isn't offline and unexpected message is displayed on console when many correctable error(CE) occurs.  Example:  SUNW-MSG-ID: FMD-8000-11, TYPE: Defect, VER: 1, SEVERITY: Minor EVENT-TIME: Fri Feb 2 18:31:07 JST 2007 PLATFORM: SPARC-Enterprise, CSN: BE80601035, HOSTNAME: FF2-35-0	Check CPU status on XSCF. This bug has been fixed in Solaris 10 8/07.

**TABLE 4** Specific Issues and Workarounds Concerning Solaris (*Continued*)

CR ID	Description	Workaround
6502204	Unexpected error messages may be displayed on console on booting after CPU UE panic. Example: SUNW-MSG-ID: FMD-8000-11, TYPE: Defect, VER: 1, SEVERITY: Minor EVENT-TIME: Tue Jan 9 20:45:08 JST 2007 PLATFORM: SUNW,SPARC-Enterprise, CSN: 2030636002, HOSTNAME: P2-DC1-16-d0	If you see unexpected messages, use the XSCF command showdomainstatus(8) to check system status on XSCF. This bug has been fixed in Solaris 10 8/07.
6502750	Notification message for inserted or removed card by PCI hot plug may not output.	Notification message for inserted or removed card by PCI hot plug may not output.
6505921	Correctable error on the system PCIe bus controller generates an invalid fault.	Create a file /etc/fm/fmd.conf containing the following lines; setprop client.buflim 40m setprop client.memlim 40m
6508432	Many correctable errors (CE) may occur, and despite these are the correctable errors, domain may panic.	Set the following to /etc/system and then reboot the domain: set pcie:pcie_aer_ce_mask = 0x2001 This bug has been fixed in Solaris 10 8/07.
6508434	The domain may panic when an additional PCI-X card is installed or a PCI-X card is replaced by using PCI hot plug.	Do not insert a different type of PCI-X card on the same PCI slot card by using PCI hot plug. This bug has been fixed in Solaris 10 8/07.
6509337	s10s_u3 wanboot fails - The server returned 416: Requested Range Not Satisfiable.	None available at this time.
6510779	On a large single domain configuration, the system may incorrectly report very high load average at times.	There is no workaround. Check for the availability of a patch for this defect.
6510861	When Dual-Channel Ultra320 SCSI Card (SE0X7SC2F, SE0X7SC2X) is mounted, correctable errors(CE) occur and system may panic.	To mask these errors with Dual-Channel Ultra320 SCSI Card (SE0X7SC2F, SE0X7SC2X), add the following entry to the /etc/system file and then reboot the system: set pcie:pcie_aer_ce_mask = 0x31c1 This bug has been fixed in Solaris 10 8/07.

**TABLE 4** Specific Issues and Workarounds Concerning Solaris (*Continued*)

CR ID	Description	Workaround
6511374	Unexpected error messages may be displayed on console after changing the system configuration.  Example:  WARNING: Translation error source /LSB0/B0/0, PA 3c00000000, target /LSB0/B0/20000000	This message can be safely ignored.
6515648	"Replumb Failed" error appears when dr@0:SB1::memory fails.	Once the DR operation is complete, it can be plumbed up manually.  Example steps to re-plumb the interface manually:  # ifconfig interface plumb xxx.xxx.xxx.xxx netmask + broadcast + up # ifconfig interface group group-name # ifconfig interface addif xxx.xxx.xxx.xxx -failover deprecated up
6516135	Ap_Id format and devices may not be shown correctly by cfgadm(1M).	This workaround assumes that the /etc/hostname. <i>interface</i> file is correctly configured for the IPMP group and does not need any modification. The IP addresses used in the example above should match what was previously used and what matches the /etc/hostname.<interface> file.  Use the following operations to display all of the PCI slots.  1) devfsadm (at Solaris prompt) 2) cfgadm
6519290	Large amounts of I/O on swap devices can cause the system to appear hung by over welling the I/O system. The amount of I/O required can be generated through a number of ways, eg memory shortage, heavy use of /tmp etc.	Set the following to /etc/system and then reboot the domain:  set maxfastscan=0x2000
6520990	Domain may cause a panic when deleteboard(8) command for kernel board by using Dynamic Reconfiguration (DR).	To mask this error, add the following entry to the /etc/system file.  set drmach:fmem_timeout = 30  This bug has been fixed in Solaris 10 8/07.

**TABLE 4** Specific Issues and Workarounds Concerning Solaris (*Continued*)

CR ID	Description	Workaround
6522017	DR and ZFS may not be used in the same domain.	Reduce the amount of kernel memory that ZFS can allocate by setting the <code>zfs_arc_max</code> parameter in the <code>/etc/system</code> file. The following example sets the maximum size to 512 Mbytes.  <code>set zfs_arc_max = 0x20000000</code>
6522433	After the CPU hardware error occurred, the <code>fmdump(1M)</code> command on the domain may display an incorrect faulty component.	Check system status on XSCF.
6527781	The <code>cfgadm</code> command fails while moving the DVD/DAT drive between two domains.	There is no workaround. To reconfigure DVD/Tape drive, execute <code>reboot -r</code> from the domain exhibiting the problem. This bug has been fixed in Solaris 10 8/07.
6527811	The <code>showhardconf(8)</code> command on the XSCF cannot display PCI card information that is installed in External I/O Expansion Unit, if the External I/O Expansion Unit is configured using PCI hotplug.	There is no workaround. When PCI card in the External I/O Expansion Unit is configured using PCI hotplug, the PCI card information is displayed correctly.
6529714	Warning messages occur while trying to configure more than four X4447A-Z or X1027A-Z1 cards into one I/O Boat.	No workaround available at this time.
6530288	Ap_Id format may not be shown correctly by <code>cfgadm(1M)</code> command.	None available at this time. This bug has been fixed in Solaris 10 8/07.
6530753	Some of the PCI slots in the External I/O Expansion Unit PCI slots are not displayed during a normal boot operation.	Use one of the following operations to display all of the PCI slots. <ul style="list-style-type: none"><li>• <code>boot -r</code> (at open boot prompt)</li><li>• <code>devfsadm -C</code> (at Solaris prompt)</li><li>• <code>cfgadm</code> (twice at Solaris prompt)</li></ul>
6531036	The error message <code>network initialization failed</code> appears repeatedly after a boot net installation.	There is no workaround.
6531668	System hangs when executing parallel hot plug operation with SP DR in suspend phase.	No workaround available at this time.

**TABLE 4** Specific Issues and Workarounds Concerning Solaris (*Continued*)

CR ID	Description	Workaround
6532215	volfs or dscp service may fail when domain is booted.  svc:/platform/sun4u/dscp:default: Method "/lib/svc/method/svc-dscp start" failed with exit status 95.  svc:/system/filesystem/volfs:default: Method or service exit timed out. Killing contract 59.	Restart the service if the failure is observed. To avoid the problem, issue the following commands.  # svccfg -s dscp setprop start/timeout_seconds=count: 300 # svccfg -s volfs setprop start/timeout_seconds=count: 300 # svcadm refresh dscp # svcadm refresh volfs
6534471	Domain may panic.	Add the following line to /etc/system and reboot the domain.  set heaplp_use_stlb=0 This bug has been fixed in 125100-06 and Solaris 10 8/07.
6535564	PCI hot plug to PCI slot #0, #1 or External I/O Expansion Unit may fail on XSB added by DR.	There is no workaround. Use DR instead of PCI hot plug if need to add or remove PCI card on the XSB.  This bug has been fixed in 125369-05.
6536564	showlogs(8) and showstatus(8) command on XSCF might report wrong I/O component due to wrong diagnosis by Solaris Fault management Architecture when faults in I/O devices occur.	To avoid this problem, issue the following commands on the domain.  # cd /usr/platform/SUNW,SPARC-Enterprise/lib/fm/topo/plugins # mv ioboard.so ioboard.so.orig # svcadm restart fmd  If the following messages are displayed on the domain, contact a sales representative or a certified service engineer.  Example: SUNW-MSG-ID: SUNOS-8000-1L, TYPE: Defect, VER: 1, SEVERITY: Minor EVENT-TIME: Sun May 6 18:22:24 PDT 2007 PLATFORM: SUNW,SPARC-Enterprise, CSN: BE80601007, HOSTNAME: sparc This bug has been fixed in 125369-05.
6537511	Bluetooth partner is hung during security tests execution	Restart application server

**TABLE 4** Specific Issues and Workarounds Concerning Solaris (*Continued*)

CR ID	Description	Workaround
6539084	There is a low probability of a domain panic during reboot when the Sun Quad GbE UTP x8 PCIe (X4447A-Z) card is present in a domain.	There is no workaround. This bug has been fixed in 125670-01.
6539909	Do not use the following I/O cards for network access when you are using the boot net install command to install the Solaris OS: <ul style="list-style-type: none"><li>• X4447A-Z/X4447A-Z, PCIe Quad-port Gigabit Ethernet Adapter UTP</li><li>• X1027A-Z/X1027A-Z, PCIe Dual 10 Gigabit Ethernet Fiber XFP</li></ul>	When running Solaris 10 11/06, use an alternate type of network card or onboard network device to install the Solaris OS via the network.
6542632	Memory leak in PCIe module if driver attach fails.	There is no workaround. This bug has been fixed in Solaris 10 8/07.
6545143	When kcage daemon is expanding the kcage area, if the user stack exists in the expanded area, its area is demapped and might cause a ptl_1 panic during the flushw handler execution.	There is no workaround. Check for the availability of a patch for this defect.
6545685	If the following message displayed on the OS console, memory degradation or XSB deconfiguration may occur in the subsequent reboot.  Example: mc-opl: WARNING: mc-opl rewrite timeout on /LSB0/B0	Add the following to <code>/etc/system</code> and then reboot the domain: <pre>set mc-opl: mc_max_rewrite_loop = 20000</pre>
6546188	The system panics when running hotplug ( <code>cfgadm(1M)</code> ) and DR operations ( <code>addboard(8)</code> and <code>deleteboard(8)</code> ) on the following cards: <ul style="list-style-type: none"><li>• X4447A-Z, PCI-e Quad-port Gigabit Ethernet Adapter UTP</li><li>• X1027A-Z1, PCI-e Dual 10 Gigabit Ethernet Fiber XFP Low profile Adapter</li></ul>	There is no workaround. For Solaris 10 8/07, check for the patch 127741-01 for this defect. For Solaris 10 11/06, check for the patch 125670-04 for this defect.

**TABLE 4** Specific Issues and Workarounds Concerning Solaris (*Continued*)

CR ID	Description	Workaround
6551356	The system panics when running hotplug ( <code>cfgadm(1M)</code> ) to configure a previously unconfigured card. The message "WARNING: PCI Expansion ROM is not accessible" will be seen on the console shortly before the system panic. The following cards are affected by this defect: <ul style="list-style-type: none"><li>• X4447A-Z, PCI-e Quad-port Gigabit Ethernet Adapter UTP</li><li>• X1027A-Z1, PCI-e Dual 10 Gigabit Ethernet Fiber XFP Low profile Adapter</li></ul>	Perform <code>cfgadm -c disconnect</code> to completely remove the card. After waiting at least 10 seconds, the card may be configured back into the domain using the <code>cfgadm -c configure</code> command.  Check for the patch 127741-01 for this defect.
6556742	The system panics when DiskSuite can not read the metadb during DR. This bug affects the following cards: <ul style="list-style-type: none"><li>• SG-XPCIE2FC-QF4, 4Gb PCI-e Dual-Port Fibre Channel HBA</li><li>• SG-XPCIE1FC-QF4, 4Gb PCI-e Single-Port Fibre Channel HBA</li><li>• SG-XPCI2FC-QF4, 4Gb PCI-X Dual-Port Fibre Channel HBA</li><li>• SG-XPCI1FC-QF4, 4Gb PCI-X Single-Port Fibre Channel HBA</li></ul>	Panic can be avoided when a duplicated copy of the metadb is accessible via another Host Bus Adaptor.  Check for the patch 125166-06 for this defect.
6559504	Messages of the form nxge: NOTICE: <code>nxge_ipp_ecue_valid_check: rd_ptr = nnn wr_ptr = nnn</code> will be observed on the console with the following cards: <ul style="list-style-type: none"><li>• X4447A-Z, PCI-e Quad-port Gigabit Ethernet Adapter UTP</li><li>• X1027A-Z1, PCI-e Dual 10 Gigabit Ethernet Fiber XFP Low profile Adapter</li></ul>	These messages can be safely ignored. For Solaris 10 8/07, check for the patch 127741-01 for this defect.
6563785	Hot-plug operation with the following cards might fail if a card is disconnected and then immediately reconnected: <ul style="list-style-type: none"><li>• SG-XPCIE2SCSIU320Z Sun StorageTek PCI-E Dual-Port Ultra320 SCSI HBA</li><li>• SGXPCI2SCSILM320-Z Sun StorageTek PCI Dual-Port Ultra320 SCSI HBA</li></ul>	After disconnecting a card, wait for a few seconds before re-connecting.  Check for the patch 127750-01 for this defect.
6564332	Hot-plug operations on Sun Crypto Accelerator (SCA)6000 cards can cause SPARC Enterprise M8000/M9000 servers to panic or hang.	Version 1.0 of the SCA6000 driver does not support hot-plug and should not be attempted. Version 1.1 of the SCA6000 driver and firmware supports hot-plug operations after the required bootstrap firmware upgrade has been performed.

**TABLE 4** Specific Issues and Workarounds Concerning Solaris (*Continued*)

CR ID	Description	Workaround
6564934	Performing a DR deleteboard(8) operation on a board which includes Permanent Memory when using the following network cards results in broken connections: <ul style="list-style-type: none"><li>• X4447A-Z, PCI-e Quad-port Gigabit Ethernet Adapter UTP</li><li>• X1027A-Z1, PCI-e Dual 10 Gigabit Ethernet Fiber XFP Low profile Adapter</li></ul>	Re-configure the affected network interfaces after the completion of the DR operation. For basic network configuration procedures, refer to the ifconfig man page for more information. Check for the patch 127741-01 for this defect.
6568417	After a successful CPU DR deleteboard(8) operation, the system panics when the following network interfaces are in use: <ul style="list-style-type: none"><li>• X4447A-Z, PCI-e Quad-port Gigabit Ethernet Adapter UTP</li><li>• X1027A-Z1, PCI-e Dual 10 Gigabit Ethernet Fiber XFP Low profile Adapter</li></ul>	Add the following line to /etc/system and reboot the system:  <code>set ip:ip_soft_rings_cnt=0</code>  Check for the patch 127111-02 for this defect.
6571370	Use of the following cards have been observed to cause data corruption in stress test under laboratory conditions: <ul style="list-style-type: none"><li>• X4447A-Z, PCI-e Quad-port Gigabit Ethernet Adapter UTP</li><li>• X1027A-Z1, PCI-e Dual 10 Gigabit Ethernet Fiber XFP Low profile Adapter</li></ul>	Add the following line in /etc/system and reboot the system: <code>set nxge:nxge_rx_threshold_hi=0</code> For Solaris 10 8/07, check for the patch 127741-01 for this defect. For Solaris 10 11/06, check for the patch 125670-04 for this defect.
6572827	On SPARC Enterprise M8000/M9000 servers, one of the columns in the IO Devices section of the output from prtdiag -v is "Type". This reports "PCIe", "PCIx", "PCI" or "UNKN" for each device.  The algorithm used to compute this value is incorrect. It reports "PCI" for PCI-X leaf devices and "UNKN" for legacy PCI devices.	There is no workaround.
6584984	On SPARC Enterprise M8000/M9000 servers, busstat(1M) command may cause rebooting of domains.	None available at this time. Do not use busstat(1M) command. Check for the availability of a patch for this defect.
6588650	On occasion, the system is unable to DR after an XSCF failover or XSCF reboot.	There is no workaround. Check for the availability of a patch for this defect.

**TABLE 4** Specific Issues and Workarounds Concerning Solaris (*Continued*)

CR ID	Description	Workaround
6589546	<p>prtdiag(8) command does not show all I/O devices of the following cards:</p> <ul style="list-style-type: none"><li>• SG-XPCIE2FC-EM4 Sun StorageTek Enterprise Class 4Gb Dual-Port Fibre Channel PCI-E HBA</li><li>• SG-XPCIE1FC-EM4 Sun StorageTek Enterprise Class 4Gb Single-Port Fibre Channel PCI-E HBA</li></ul>	Use prtdiag -v for full output.
6589644	After added the system board by DR, when the switching occurred on the redundant XSCF Units, the domain console may hang up.	The console can be recovered by pressing Ctrl-q (the "Ctrl" key and the "q" key).
6589833	<p>The DR addboard(8) command might cause a system hang if you are adding a Sun StorageTek Enterprise Class 4Gb Dual-Port Fibre Channel PCI-E HBA card (SGXPCIE2FC-QF4) at the same time that an SAP process is attempting to access storage devices attached to this card. The chance of a system hang is increased if the following cards are used for heavy network traffic:</p> <ul style="list-style-type: none"><li>• X4447A-Z, PCI-e Quad-port Gigabit Ethernet Adapter UTP</li><li>• X1027A-Z1, PCI-e Dual 10 Gigabit Ethernet Fiber XFP Low profile Adapter</li></ul>	There is no workaround. Check for the availability of a patch for this defect.
6592302	Unsuccessful DR operation leaves memory partially configured.	Try deleteboard(8) again.
6600730	Extra characters appear in a boot message string.	The extraneous characters can be safely ignored.

# Identifying Permanent Memory in a Target Board

1. Log in to XSCF.
2. Execute the following command:

```
XSCF> showdevices -d domain_id
```

The following example shows a display of the showdevices -d command where 0 is the *domain\_id*.

```
XSCF> showdevices -d 0
...
Memory:
-----
      board    perm      base          domain  target deleted remaining
DID XSB   mem MB   mem MB   address      mem MB   XSB   mem MB   mem MB
 00 00-0     8192       0 0x000000000000000000 24576
 00 00-2     8192     1674 0x000003c0000000000 24576
 00 00-3     8192       0 0x0000034000000000 24576
...
...
```

The entry for column 4 perm mem MB indicates the presence of permanent memory if the value is non-zero.

The example shows permanent memory on 00-2, with 1674 MB.

If the board includes permanent memory, when you execute the deleteboard(8) command or the moveboard(8) command, the following notice appears:

```
System may be temporarily suspended, proceed? [y|n] :
```

# Preparing to Upgrade to XCP 1050 or Later

1. Delete any accounts named "admin".

Use the showuser -lu command to list all XSCF accounts. Any accounts named admin must be deleted prior to upgrading to XCP 1050 or later. This account name is reserved in XCP 1050 and higher. Use the deleteuser(8) command to delete the account.

# Upgrading From XCP104x to XCP 1050 or Later

The following steps describe the case of upgrading to XCP1060.

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**Note –** By upgrading to XCP 1050 or later, XSCFU\_B#1 will start working. When your system is using RCI network, XSCFU\_B#1 needs proper configuration of cabling or termination to setup RCI network, properly.

For further information, please contact to your service provider.

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**Note –** Do not access the XSCF units via the "Takeover IP address".

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**Note –** LAN connections are disconnected when the XSCF resets. It is recommended to use the XSCF serial connection to simplify the XCP upgrade procedure.

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1. Log in to the XSCF#0 on an account with platform administrative privileges.
2. Verify that there are no faulted or deconfigured components by using the showstatus(8) command.

```
XSCF> showstatus
```

The showstatus(8) prompt will return if there are no failures found in the System Initialization. If anything is listed, contact your authorized maintenance representative before proceeding.

---

**Note –** Take information with using BUI or snapshot(8) command. This will be help in case any problem occurred in this procedure.

---

3. Power off all domains.

```
XSCF> poweroff -a
```

4. Confirm that all domains are stopped:

```
XSCF> showlogs power
```

5. Move the key position on the operator panel from Locked to Service.

6. Collect an XSCF snapshot to archive system status prior to upgrade.

```
XSCF> snapshot -t user@host:directory
```

7. The BUI on XSCFU#0 can be used to upload the XCP 1060 upgrade image.

8. Update the firmware by using the flashupdate(8) command.



**Caution** – flashupdate(8) will update one bank, reset the XSCF and commence update of the second bank. Verify that the current and reserve banks are both updated. If both banks indicate XCP revision 1060, proceed to the next step.

```
XSCF> flashupdate -c update -m xcp -s version
```

Specify the XCP version to be updated. In this examples, it's 1060.

9. Confirm completion of the update.

```
XSCF> showlogs event
```

Confirm no abnormality happens while updating XCSF\_B#0.

10. Confirm that both the current and reserve banks of XSCFU#0 display the updated XCP versions.

```
XSCF> version -c xcp

XSCF#0 (Active)
XCP0 (Reserve) : 1060
XCP1 (Current) : 1060
XSCF#1 (Standby)
XCP0 (Reserve) : 0000
XCP1 (Current) : 0000
```

If the Current and Reserve banks on XSCF#0 do not indicate XCP revision 1060, contact your authorized service representative.

11. Turn off all of the server's mainline switches for 30 seconds.
12. After 30 seconds, turn the mainline switches back on.

**13. Wait until XSCF firmware reaches the ready state.**

This can be confirmed when the READY LEDs of XSCF\_B#0 and XSCF\_B#1 remain lit.

**14. Log in on to XSCFU#0 using a serial connection or LAN connection.**

**15. Confirm no abnormality occurred by using showlogs error -v and showstatus(8) commands.**

```
XSCF> showlogs error -v  
XSCF> showstatus
```

If you encounter any hardware abnormality of the XSCF contact your authorized service representative.

**16. Confirm and update the imported XCP image again.**

```
XSCF> flashupdate -c update -m xcp -s version
```

Specify the XCP version to be updated. In this example, it is 1060. XSCF#1 will be updated, and then XSCF#0 updated, again.

When the firmware update for XSCF#0 is complete, XSCF#1 is active.

**17. Log in to XSCFU#1 using a serial connection or LAN connection.**

**18. Confirm completion of the update by using the showlogs event command.**

```
XSCF> showlogs event
```

Confirm no abnormality is found during the update.

19. Confirm that both the current and reserve banks of XSCFU#1 display the updated XCP versions.

```
XSCF> version -c xcp

XSCF#1 (Active)
XCP0 (Reserve) : 1060
XCP1 (Current) : 1060
XSCF#0 (Standby)
XCP0 (Reserve) : 1060
XCP1 (Current) : 1060
```

If the Current and Reserve banks on XSCF#1 do not indicate XCP revision 1060, contact your authorized service representative.

---

**Note** – Setup RCI network if RCI is used. To setup RCI network, please consult your service provider.

---

20. Confirm switching over between XSCFs works properly.

```
XSCF> switchscf -t Standby
The XSCF unit switch between the Active and Standby states.
Continue? [y|n] :y
```

- a. When the READY LED on XSCFU\_B#1 and the ACTIVE LED on XSCFU\_B#0 remain lit, log in to XSCFU#0 using a serial connection or LAN connection.

**b. Confirm switching over between XSCFs using the following commands:**

```
XSCF> showhardconf
```

Confirm XSCF#1 is standby, and XSCF#0 becomes active.

```
XSCF> showlogs error
```

Confirm new log is not recorded since you checked on [Step 16](#).

```
XSCF> showlogs event
```

Confirm a message XSCFU entered active state from standby state.

```
XSCF> showstatus
```

Confirm a message "No failures found in System Initialization".

**21. In case the takeover IP address is specified, confirm the IP address.**

```
XSCF> shownetwork lan#0  
XSCF> shownetwork lan#1
```

**22. Power on all domains.**

```
XSCF> poweron -a
```

**23. Log in to XSCFU#0 and confirm all domains start up properly.**

```
XSCF> showlogs power
```

**24. Check that there are no new errors.**

```
XSCF> showlogs error
```

In case an abnormality is encountered, take appropriate maintenance action. If no abnormality is found, proceed to [Step 25](#).

**25. Move position of the key switch on the operator panel from service to lock.**

# Software Documentation Updates

This section contains late-breaking software information that became known after the documentation set was published and corrections in the SPARC Enterprise M8000/M9000 servers software documentation.

The corrections for SPARC Enterprise M4000/M5000/M8000/M9000 servers XSCF Reference Manual, if not otherwise specified, also apply to the man pages which XSCF provides. And they supersede the information on the man pages.

**TABLE 5** lists known documentation updates.

**TABLE 5** Documentation Updates

Title	Page Number	Update
All SPARC Enterprise M8000/M9000 servers documentation		All DVD references are now referred to as CD-RW/DVD-RW.
SPARC Enterprise M4000/M5000/M8000/M9000 Servers XSCF Reference Manual	setpowerupde lay(8) man page	<p>The following description is added in EXTENDED DESCRIPTION:</p> <p>When the power is turned on from the operator panel, the wait time and warm-up time that you set are ignored. If you have set these times and wish to observe them at startup, perform the poweron(8) command.</p>
	setupplatfor m(8) man page	<p>The -p user option requires useradm privileges.</p> <p>The -p network option requires either platadm or fieldeng privileges.</p> <p>The -p altitude option requires platadm privileges.</p> <p>The -p timezone option requires platadm privileges.</p>